

Fig.1A

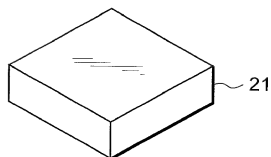


Fig.1B

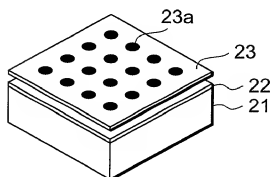


Fig.1C

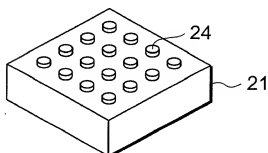


Fig.1D

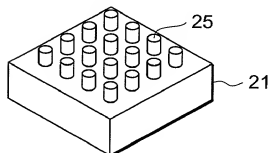


Fig.1E

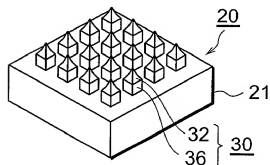


Fig.2

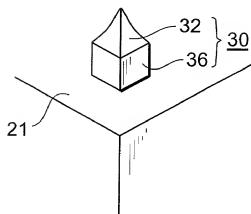


Fig.3A

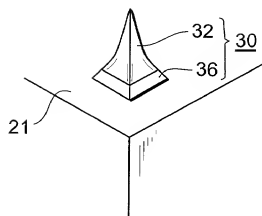


Fig.3B

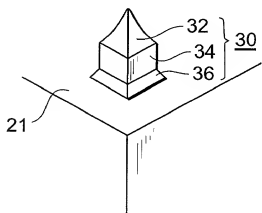


Fig.4

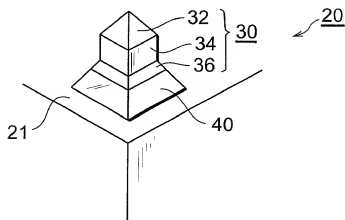


Fig.5

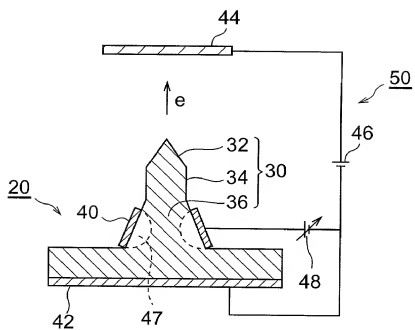


Fig.6

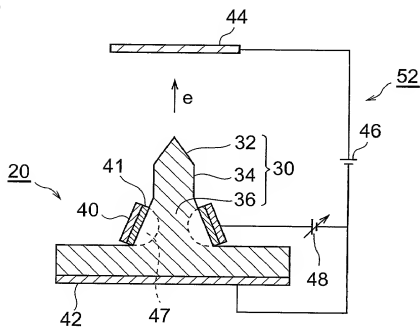


Fig.7A

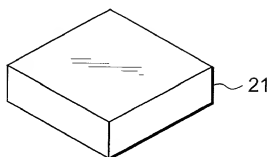


Fig.7D

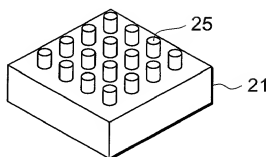


Fig.7B

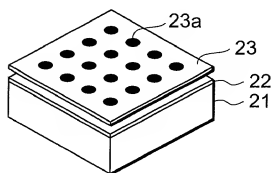


Fig.7E

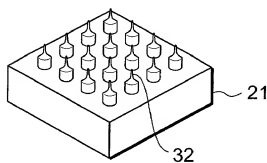


Fig.7C

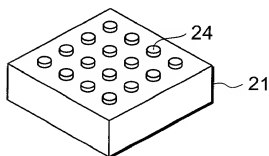


Fig.7F

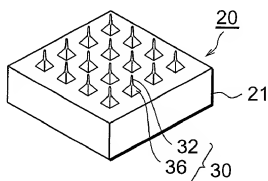


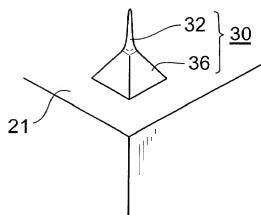
Fig.8

Fig.9A

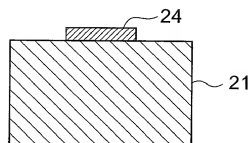


Fig.9B

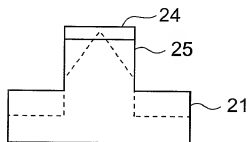


Fig.9C

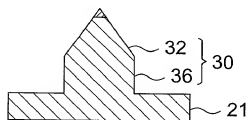


Fig.9D

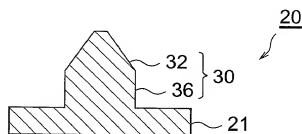


Fig.10A

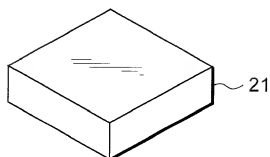


Fig.10B

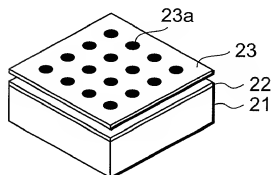


Fig.10C

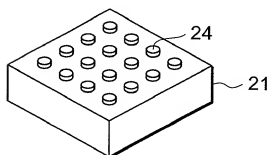


Fig.10D

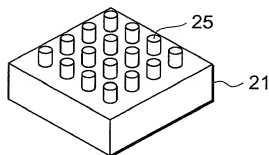


Fig.10E

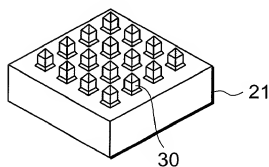
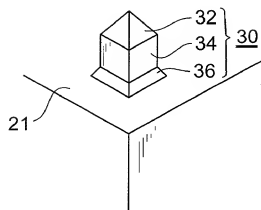


Fig.11**Fig.12**

SAMPLE NO.	DIMENSIONS OF COLUMNAR MEMBER		DIMENSIONS OF ELECTRON-EMITTING PORTION		
	HEIGHT (μm)	DIAMETER (μm)	DIAMETER OF VERTEX PORTION (μm)	DIAMETER OF BASE (μm)	ASPECT RATIO
(1)	3	3	0.5	2.6	1
(2)	5	5	3.5	4.5	1
(3)	8	8	6	7.5	1
(4)	4.2	3	0.5	2.6	1.4
(5)	7	5	0.5	4.5	1.4
(6)	7	3	0.5	2.6	2.3
(7)	11.5	5	0.5	4.5	2.3

Fig.13A

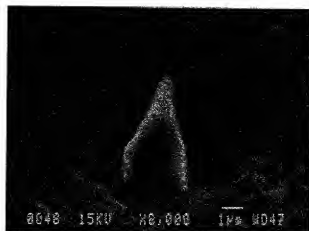


Fig.13B

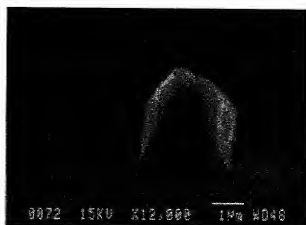
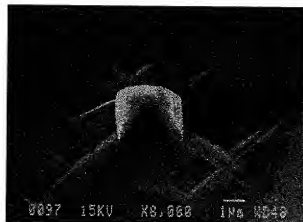
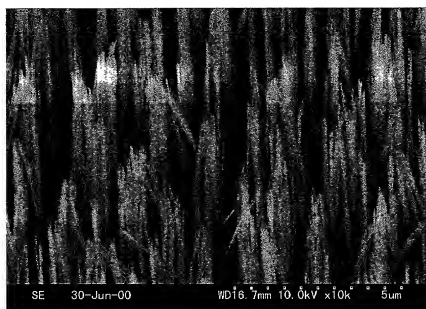


Fig.13C



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Fig.14A



5 μ m

Fig.14B



250nm

Fig.15A

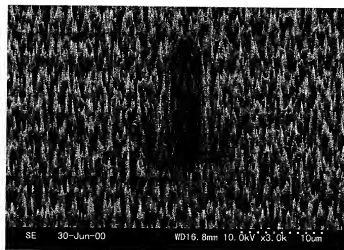


Fig.15B

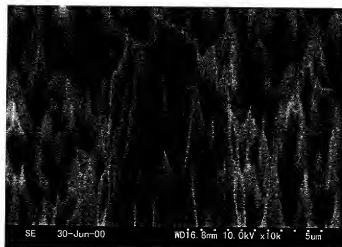


Fig.15C

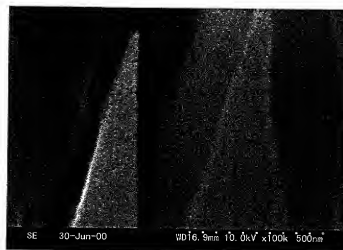


Fig.16B



Fig.17A

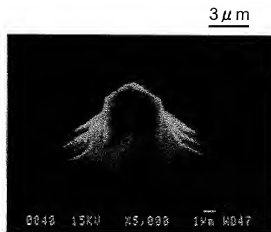


Fig.17B



Fig.17C

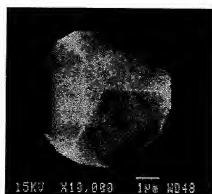
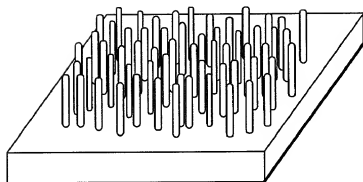
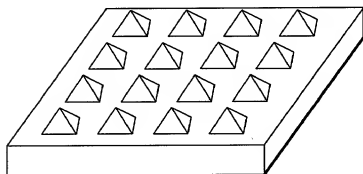


Fig.18



PRIOR ART

Fig.19



PRIOR ART